

Please amend the following claims:

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Claim 35 (amended) In a process for producing trehalose in plants or parts thereof, wherein the plants naturally synthesize trehalose or are genetically altered to synthesize trehalose, said plants naturally comprising an endogenous trehalase activity, the improvement comprising:

- (a) inhibiting the endogenous trehalase activity in the plants or parts thereof and cultivating the plants to allow an accumulation of trehalose in the plants or parts thereof; and
- (b) screening for a plant or a plant part having a level of trehalose that is increased as a result of said inhibiting.

Claim 42, line 1 before "chemical" insert -- a protein that is a --

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Claim 46 (amended) A plant part according to claim 45, wherein said tuber or micro-tuber[s of] is from *Solanum tuberosum* [containing] and contains trehalose.

Claim 48, line 2 before "plants" insert -- plant cells,--

Claim 56, line 3 delete "nuts"

line 3 delete "leafs"

line 4 delete "roots"

line 5 delete "tubers"

Please add the following new claims:

Claim 63 In a process for producing trehalose in plants or parts thereof, wherein the plants do not naturally synthesize trehalose and have been genetically altered to synthesize trehalose, said plants naturally comprising an endogenous trehalase activity, the improvement comprising:

63 (a) inhibiting the endogenous trehalase activity in the plants or parts thereof and cultivating the plants to allow an accumulation of trehalose in the plants or parts thereof; said inhibiting comprising transforming cells of the plants with a DNA construct encoding an RNA transcript that inhibits expression of said trehalase activity; and

(b) screening for a plant or a plant part having a level of trehalose that is increased as a result of said inhibiting.

Claim 64 A process according to claim 63, wherein the DNA construct produces an RNA transcript that is sufficiently complementary to an RNA transcript encoding said trehalase activity to inhibit said activity by antisense inhibition.

Claim 65 A process according to claim 35, wherein the plant parts are selected from the group consisting of nuts, leaves, roots, and tubers.
